Page 1 of 15

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FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1700.0190005/BJD/SJE	APPLICATION NO. 10/050,898
APPLICANT RENNER et al.	
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PIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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WRITER'S DIRECT NUMBER: (202) 789-5525 INTERNET ADDRESS: BRIAND@ SKGE.COM

Commissioner for Patents Washington, D.C. 20231

Art Unit 1645

Re:

U.S. Utility Patent Application

Appl. No. 10/050,898; Filed: January 18, 2002

For: Molecular Antigen Array

Inventors:

Renner et al.

Our Ref:

1700.0190005/JAG/BJD/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Second Supplemental Information Disclosure Statement;
- 2. Form PTO-1449 listing the cited documents (seventy-eight (78) pages);
- 3. Copies of the cited documents; and
- 4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents November 27, 2002 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono Attorney for Applicants Registration No. 42,473

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Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RENNER et al.

Appl. No. 10/050,898

Filed: January 18, 2002

For:

Molecular Antigen Array

Confirmation No. 7794

Art Unit:

1645

Examiner:

To be assigned

Atty. Docket: 1700.0190005/JAG/BJD/SJE

Second Supplemental Information Disclosure Statement

Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. This Information Disclosure Statement is supplemental to Information Disclosure Statements that were electronically filed on November 20, 2002 and November 26, 2002. A copy of each document is also provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language document AT37 cited on Form PTO 1449:

Documents AT37, Kozlovskaya, T.M., et al., "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," Dokl. Akad. Nauk. SSSR 287:452-455, (1986) is in the Russian language. An English language abstract is attached as Document AR38.

The Examiner is referred to the following related, co-pending patent applications:

U.S. Patent Application No. 09/449,631, filed November 30, 1999, inventors Renner et al., submitted herewith as AR77;

U.S. Patent Application No. 10/050,902, filed January 18, 2002, inventors Renner et al., submitted herewith as A\$77.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the

effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted.

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono Attorney for Applicants

Registration No. 42,473

Date: NW. 27, 2

1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 (202) 371-2600

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FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Page 1 of 78 APPLICATION NO. ATTY, DOCKET NO. FORM PTO-1449 1700.0190005/JAG/BJD/SJE 10/050,898 APPLICANT REDUER et al. SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE January 18, 2002 1645 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT DATE NAME CLASS FILING DATE INITTIAL. SUB-NUMBER CLASS ΑA A:3 AC AD ΑE ΑF 740 AHАI K_{i}^{2} K^{\times} FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER. CLASS Yes /MH/ KL1W: 92,11291 A1 07.109.11992 No Yes WE 96, 30523 A2 10.03 1996 WIRD olf Yes AN1 WD 97,31948 A1 (9.04 - 1997 WIRD olf Yes WI 98 15631 A1 14,116 1998 A01 WIRO 011 Yes A21 WO 00/32227 A2 06/08 2000 WIRO tio OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of Escherichia coli," Proc. Natl. Acad. Sci. USA 82:5724-5727, AF. 1 National Academy Press (1985) Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of Escherichia coli Type 1 Fimbriae, " J. Bacteriol. 174:5145-5148, AS 1 American Society for Microbiology (1992) Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Rosolves the Discrepancy between Serological and Biophysical Classification," AT1 Virology 170:238-242, Academic Press, Inc. (1989) EKAN NER DATE CONSIDERED EXAMINER: Initial if reference considered, whether or not ditation is in conformance with MPEP 609. Draw line through ditation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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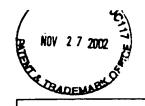
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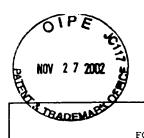
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Page 73 of 78 APPLICATION NO. ATTY. DOCKET NO. 1700.0190005/JAG/BJD/SJE 10,050,898 FORM PTO-1449 APPLICANT RENNER et al. SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE January 18, 2002 1645 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT DATE NAME CLASS SUB-FILING DATE INITIAL CLASS NUMBER AA ΑВ AC ΑD ΑE AF AG АН ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER. CLASS Yes ALNo Yes No ΝA Yes 110 ΑIJ Yes ΑO 110 Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Wuttke, M., et al., "Structural Characterization of Human Recombinant and Bone-/MH/ derived Bone Sialoprotein," J. Biol. Chem. 276:36839-36848, The American Society AF. <u>73</u> for Biochemistry and Molecular Biology, Inc. (2001) Wynne, S.A., et al., "The Crystal Structure of the Human Hepatitis B Virus Capsid," $Mol.\ Cell\ 3:771-780$, Cell Press (1999) /MH/ AS <u>73</u> /MH/ Xiong, C., et al., "Sindbis Virus: An Efficient, Broad Host Eange Vector for Gene Expression in Animal Cells," $Science\ 243$:1186-1191, American Association for the ΑT 73 Advancement of Science (1989) EXAMINER DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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